

## ABSTRACT OF THE DISCLOSURE

A method for determining hydrogen peroxide and a device for use in the method excellent at determining hydrogen peroxide in body fluid in the field of a clinical examination are provided. In the method for determining hydrogen peroxide, the intensity of light emitted by reaction of immobilized horseradish peroxidase, hydrogen peroxide and imidazoles in alkaline pH is measured. The device for determining hydrogen peroxide in body fluid includes a pump for chromatography, an autosampler, a mobile phase passage, having the pump and the autosampler for body fluid, a pump for chromatography, a mobile phase passage, having the pump for a solution of imidazoles and an alkaline buffer, a flow passage, a flow cell, packed with a horseradish peroxide immobilized stationary phase, a chemiluminometer, having the flow cell, a photomultiplier, provided on the chemiluminometer in contiguity with the surface of the flow cell for the chemiluminometer. In the device, the mobile phase passages and join into the flow passage, and the flow passage is connecting to the chemiluminometer.